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(54) Title: AN ITRACONAZOLE EXHIBITING AN IMPROVED SOLUBILITY, A METHOD OF PREPARING THE SAME AND A PHARMACEUTICAL COMPOSITION FOR ORAL ADMINISTRATION COMPRISING THE SAME

(57) Abstract

The particle diameter of itraconazole, insoluble drug, is reduced and crystallinity thereof is changed from crystalline into amorphous, increasing water solubility and a dissolution rate thereof. The improved itraconazole is applied to an oral administration drug.

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AN ITRACONAZOLE EXHIBITING AN IMPROVED SOLUBILITY, A METHOD OF PREPARING THE SAME AND A PHARMACEUTICAL COMPOSITION FOR ORAL ADMINISTRATION COMPRISING THE SAME

CROSS REFERENCE TO RELATED APPLICATION

This application is based on application No. 97-24938 filed in the Korean Industrial Property Office on June 16, 1997, the content of which is incorporated hereinto by reference.

BACKGROUND OF THE INVENTION

(a) Field of the Invention

The present invention relates to an itraconazole and, more particularly, to an itraconazole exhibiting an improved solubility, a method of preparing the same and a pharmaceutical composition comprising the same.

(b) Description of the Related Art

Because the water-solubility of an azole-type antifungal agent such as itraconazole is low, bioavailability of a drug including the azole-type antifungal agent is low, when the drug is orally administered to a patient. Various studies have been attempted to increase the water solubility and bioavailability of the azole-type antifungal agent. The solubility and bioavailability of the compounds can be increased by complexation with cyclodextrins or derivatives thereof as described in WO 85/02767 and U. S. patent No. 4,764,604. WO 94/05263 reports a method of formulating a bead type drug by using a soluble polymer and the itraconazole.

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As the azole-type antifungal agent, itraconazole has been widely used. Itraconazole has a molecular formula of $C_{35}H_{38}Cl_2N_8O_4$ and molecular weight of 705.64. Itraconazole is powder showing light yellow color and insoluble in water (solubility of less than 1 $\mu g/m\ell$), slightly soluble in alcohol (300 $\mu g/m\ell$) and soluble in methylene chloride (239 $mg/m\ell$). Itraconazole is a weak basic compound (pKa = 3.7) and is only ionized at low pH, such as in gastric juice. The log partition coefficient of itraconazole in a system of noctanol and an aqueous buffer solution of pH 8.1 is 5.66, indicative of very high lipophilicity. This property may influence its plasma protein binding and tissue distribution. Furthermore, it has been known that itraconazole is a broad spectrum antifungal compound developed for oral, parenteral and/or topical use and is disclosed in U. S. patent No. 4,267,179.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide itraconazole exhibiting an improved solubility by reducing particle size and changing the crystallinity thereof from crystalline into amorphous.

It is another object to provide a method of preparing the itraconazole by dissolution-induced drying.

It is another object to provide a pharmaceutical composition for oral administrating the itraconazole.

These and other objects may be achieved by itraconazole exhibiting an improved solubility, wherein a particle diameter of the itraconazole is about 0.5 to about 10 $\,\mu\mathrm{m}$ and has an amorphous form.

The present invention further includes a method of preparing

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itraconazole exhibiting the improved solubility. The method includes the steps of dissolving itraconazole in an organic solvent and dissolution-induced drying the mixture.

The present invention further includes a pharmaceutical composition including the itraconazole exhibiting the improved solubility as an active ingredient.

BRIEF DESCRIPTION OF THE DRAWINGS

A more complete appreciation of the invention, and many of the attendant advantages thereof, will be readily apparent as the same becomes better understood by reference to the following detailed description when considered in conjunction with the accompanying drawing, wherein:

- FIG. 1 is a graph showing dissolution profile of itraconazole with and without dissolution-induced drying according to time; and
- FIG. 2 is a graph showing X-ray diffraction patterns of itraconazole with and without dissolution-induced drying.

DETAILED DESCRIPTION OF THE INVENTION

For absorbing a solid drug into a systemic circulation via epithelial cells, the solid drug should be soluble in water. Because a water-insoluble drug is slowly dissolved from a solid formulation, the drug dissolution step is rate-limiting step in absorbing the drug. Thus, the potency of the drug and on set time, the potency duration time depend on the dissolution rate of the drug.

The concentration of a drug in blood depends on the absorption and

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elimination rates thereof. Therefore, as the dissolution rate of the drug decreases, the absorption rate of the drug is reduced. As a result, although the total amount of drug absorbed into a human body is constant, time for reaching effective concentration thereof in blood is getting longer and maximum concentration thereof in blood decreases. Therefore, bioavailability and solubility of water-insoluble drugs decreases.

In order to solve these disadvantages and increase bioavailability and solubility, it is required to increase the dissolution rate of the water-insoluble drugs. For that purpose, particle size of the drug is reduced, or polymorphism, complex form, amorphous form, solid solution, co-melting mixture, conjugated compound, solvated compound of the drug and general drug additives are used.

The present invention provides an improved itraconazole having reduced particle size and modified crystalline characteristics from crystalline into amorphous. The improved itraconazole exhibits good water solubility, thereby increasing the bioavailability.

A method of preparing the improved itraconazole will be now illustrated in more detail.

Itraconazole is dissolved in an organic solvent and dissolution-induced dried to obtain powder of itraconazole. An amount of itraconazole in the organic solvent is 2 to 6 wt % and preferably, 4 wt %. It is preferred that the organic solvent is methylene chloride which is a good solvent for itraconazole. The dissolution-induced drying step is performed with a spray drier, a centrifugal granulator or fluid-bed granulator. In the dissolution-

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induced drying step, a carrier, for example, lactose or other pharmaceutical excipients may be used. The pharmaceutical excipients may be include a binder, a disintergrant, an agent for increasing viscosity, a lubricant, a stabilizer, a surfactant, a preservative, an electrolyte, a composite and a complex compound or another active material.

In the preparing step, it is important to control a dissolution-induced drying rate. If dissolution-induced drying rate is extremely slow, the solvent is too fast evaporated so that a large amount of drug is loss. Contrarily, if dissolution-induced drying rate is fast, microparticles are entangled with another, prior to evaporation, enlarging the particle size. It is preferred that the dissolution-induced drying rate is controlled to be slow initially and then controlled to gradually increase.

The particle size depends on an atomizing air pressure as well as the dissolution-induced drying rate. Low atomizing air pressure results in the formulation of larger droplets and increased tendency toward agglomeration. High atomizing air pressure could conceivably carry the risk of dissolution-induced drying of the drug solution, but this was found not to be a problem. Consequently, atomizing air pressure may be set at nearly maximum level.

The physical changes of itraconazole may be confirmed by differential scanning calorimeter (DSC) and x-ray crystallography.

Itraconazole prepared by method of the present invention has a particle diameter of about 0.5 to about 10 μ m and an average particle diameter of about 3.7 μ m. The itraconazole may include a trace of particles with diameter of below 0.5 μ m.

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The itraconazole of the present invention may be used as an active ingredient for a pharmaceutical composition for oral administration.

The pharmaceutical composition further includes vehicle such as lactose as carrier, or other pharmaceutical excipients.

The pharmaceutical excipients may be include a binder, a disintegrant, an agent for increasing viscosity, a lubricant, a stabilizer, a surfactant, a preservative, an electrolyte, a composite and a complex compound or another active material.

Itraconazole of the present invention is applied to various types of a drug for oral administration. The various type of the drug are a tablet, a capsule, a granule and a fine-granule. One tablet or one capsule may include 50 mg to 100mg of itraconazole.

The present invention is further explained in more details with reference to the following examples. The examples is not intended to limit the present invention.

Example 1

12g of itraconazole was accurately weighed and dissolved in 200 ml of methylene chloride. The mixture was then dissolution-induced dried by using a spray-drier to obtain powder of itraconazole. The air temperature in inlet and outlet of the spray drier were controlled to be 80 \pm 5°C and 60 \pm 5°C, respectively. The dissolution-induced drying rate was controlled to be slow initially and then controlled to gradually increase.

Example 2

12g of itraconazole was accurately weighed and dissolved in 200 ml

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of methylene chloride. The mixture was then dissolution-induced dried by using a fluid-bed granulator. The air temperatures in inlet and outlet of the fluid-bed granulator were controlled to be $80\pm5\%$ and $60\pm5\%$, respectively. The dissolution-induced drying rate was controlled to be slow initially and then controlled to gradually increase. During the dissolution-induced drying, a drying step was performed to completely evaporate the solvent.

Example 3

of methylene chloride. The mixture was then dissolution-induced dried by using a C/F granulator to prepare powder thereof. The air temperatures in inlet and outlet of the C/F granulator were controlled to be $80\pm5\%$ and $60\pm5\%$, respectively. The rotation speed of rotor in the C/F granulator was 200 rpm. The dissolution-induced drying rate was controlled to be slow initially, and then controlled to gradually increase. During the dissolution-induced drying, a drying step was performed to completely evaporate the solvent.

Example 4: Tablet preparation

Itraconazole prepared from Example 1, lactose, calcium carboxymethylcellulose and hydroxypropylmethylcellulose were uniformly mixed. The mixture was dry-granulated by a roller compactor to prepare granules. The granules were mixed with magnesium stearate as lubricant. The mixture was tableted to prepare a tablet. The amounts of each of the components in one tablet were as follows.

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Itraconazole	100mg
lactose	279mg
calcium carboxymethylcellulose	250mg
magnesium stearate	1mg
hydroxypropylmethylcellulose	20mg

Example 5: Capsule preparation

Itraconazole prepared from Example 1, lactose, calcium carboxymethylcellulose and hydroxymethylcellulose were uniformly mixed. The mixture was dry-granulated by using a roller compactor to prepare granules. The granules were mixed with magnesium stearate as lubricant and charged into a hard capsule No. 0. The amounts of each of the components were as follows:

	Itraconazole	100mg
	lactose	179mg
15	calcium carboxymethycellulose	200mg
	magnesium stearate	1mg
	hydroxypropylmethylcellulose	20mg

Experiment 1: Determination of solubility

Excess of itraconazole from Example 1 and conventional itraconazole prepared without dissolution-induced drying were added to artificial gastric juice of pH 1.2 and shaken at 37 $^{\circ}$ C for 2 hours, respectively. Each of the mixture were filtered through a membrane filter with pore diameter of 0.45 μ m and each of the filtrate was subjected to high-performance liquid chromatography, thereby obtaining gastric juice solubility.

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The results are shown in Table 1.

Table 1: Solubility (37 ℃, 2hours, pH 1.2)

	μg/ml
The conventional itraconazole without dissolution-induced drying	3.5
Itraconazole of Example 1	218.6

As shown in Table 1, solubility of itraconazole of the Example 1 is 62 times larger than that without dissolution-induced drying. Therefore, it is shown that solubility of itraconazole of the present invention significantly increases with compared to the conventional itraconazole without dissolution-induced drying.

Experiment 2: Determination of particle size

Itraconazole powder prepared from Example 1 and the conventional itraconazole powder without dissolution-induced drying were uniformly distributed in liquid paraffin and particle diameter thereof were determined, respectively. The results are shown in Tables 2 to 4.

Table 2: The conventional Itraconazole without dissolution-induced drying

- · · · · · · ·	Distribution ratio of	Accumulated amount
Particle size (μm)	particle (%)	(wt %)
~5	2.4	2.4
5~15	21.8	24.2

15~17.5	18.4	40.6
17.5~20	9.9	50.5
20~30	23.9	74.4
30~35	8.0	82.4
35~40	8.1	90.5
40~52.5	9.5	100.0

Table 3: Itraconazole of Example 1

Dartida sissa (sa)	Distribution ratio of	Accumulated amount
Particle size (μm)	particle (%)	(wt %)
~0.5	2.4	2.4
0.5~1.25	25.8	28.2
1.25~2.5	24.0	52.2
2.5~5	34.2	86.4
5~7.5	12.2	98.6
7.5~10	1.4	100.0

Table 4: Average particle diameter

	μαn
The conventional itraconazole without	24.5
dissolution-induced drying	
itraconazole of Example 1	3.7

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The average diameter of itracoazole particle of the present invention is 7 times smaller than that without dissolution-induced drying

Experiment 3: Dissolution rate test

The dissolution rate test on the itraconazole tablet prepared from Example 4 and a conventional itraconazole tablet without dissolution-induced drying were performed.

The itraconazole tablet prepared from Example 4 and the conventional itraconazole tablet were respectively added to artificial gastric juice of pH 1.2 as an eluting solvent. While keeping at 37 ℃, 5ml of the sample was taken from the mixture after 5, 10, 30, 60 and 120 minutes, respectively. Each of the samples were filtered by using a filter of 0.45 micrometers and each of the filtrate were subjected to high-performance liquid chromatography. The results are shown in Fig. 1.

As shown in Fig.1, dissolution rate and solubility of itraconazole with dissolution-induced drying is greatly enhanced with compared to itraconazole without dissolution-induced drying.

Experiment 4: The physical property test

The physical changes of itraconazole was confirmed by x-ray diffraction and result are shown in Fig. 2. In Fig. 2, pattern A shows x-ray diffraction pattern of traconazole without dissolution-induced drying. Pattern B shows x-ray diffraction pattern of itraconazole with dissolution-induced drying. As shown in Fig. 2, itraconazole without dissolution-induced drying has an crystalline form and itraconazole with dissolution-induced drying has an crystalline form.

As described above, the present invention is capable of increasing solubility of itracobazole being insoluble drug and a dissolution rate and itraconazole of the present invention is applied to solid preparation.

While the present invention has been described in detail with reference to the preferred embodiments, those skilled in the art will appreciate that various modifications and substitutions can be made thereto without departing from the spirit and scope of the present invention as set forth in the appended claims.

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WHAT IS CLAIMED IS:

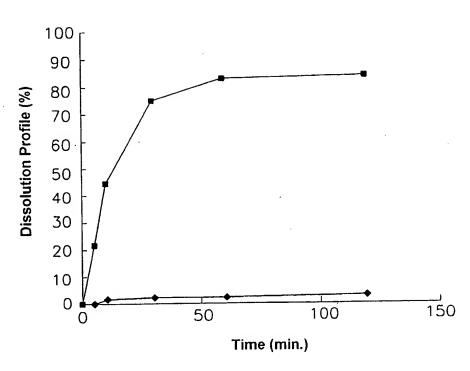
- 1. An itraconazole exhibiting an improved boiavailability wherein the particle diameter of itraconazole is in the range of 0.5 to 10 μ m and the itraconazole has an amorphous form.
- 2. The itraconazole of claim 1 wherein an average particle diameter of itraconazole is about 3.7 $\,\mu\mathrm{m}$.
- 3. A method of preparing an improved itraconazole having particle diameter of 0.5 to 10 μm and an amorphous form, comprising the steps of:

dissolving an itraconazole in an organic solvent; dissolution-induced drying the mixture.

- The method of claim 3 wherein an average particle diameter of itraconazole is about 3.7 μ m,
- 5. The method of claim 3 wherein the dissolution-induced drying step is performed by using a machine selected from the group consisting of spray drier. fluid-bed granulator and centrifugal granulator.
- 6. A pharmaceutical composition for oral administration, comprising an improved itraconazole having a particle diameter of 0.5 to 10 μ m and having an amorphous form, as active ingredient.
- 7. The pharmaceutical composition of claim 6 wherein an average particle diameter of itraconazole is about 3.7 μ m.
- 8. The pharmaceutical composition of claim 6 further comprising vehicle or pharmaceutical excipients.

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FIG.1

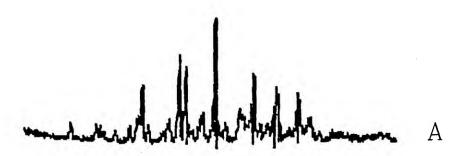


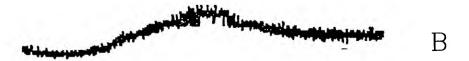
ltraconazole without dissolution-induced drying

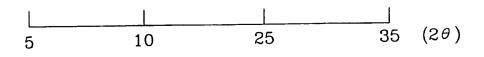
Itraconazole with dissolution-induced drying

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FIG.2







International application No.

PCT/KR 98/00164 CLASSIFICATION OF SUBJECT MATTER IPC⁶: C 07 D 403/14; A 61 K 31/41 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC^b: C 07 D 403/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AT, Chemical Abstracts Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO: WPI; Questel: CAS, Medline C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category* Relevant to claim No. Υ EP 0 147 171 A1 (TOKYO TANABE CO.) 03 July 1987 1-8 (03.07.87), claims; examples 1,2. Y WO 94/16 700 Al (SEPRACOR INC.) 04 August 1994 1 - 8(04.08.94), page 9, lines 13-25. Y EP 0 006 711 A1 (JANSSEN PHARM.) 09 January 1980 1-8 (09.01.80), claim 1. EP 0 197 571 Al (JANSSEN PHARM.) 15 October 1986 1-8 (15.10.86).Α WO 94/05 263 Al (JANSSEN PHARM.) 17 March 1994 1-8 (17.03.94).Α WO 94/16 733 A1 (CHIESI FORM.) 04 August 1994 1-8 (04.08.94).Α WO 95/31 178 Al (JANSSEN PHARM.) 23 November 1995 1-8 (23.11.95).WO 97/18 839 A1 (JANSSEN PHARM.) 29 May 1997 Α 1-8 (29.05.97). Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance "E" carlier application or patent but published on or after the international $-\infty$ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 18 August 1998 (18.08.98) 26 August 1998 (26.08.98) Name and mailing address of the IS/V Authorized officer Austrian Patent Office

Hammer

Telephone No. 1/53424/374

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Kohlmarkt 8-10; A-1014 Vienna

International application No.

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	Chemical Abstracts, Vol.125, No.26, 23 December 1996 (Columbus, Ohio, USA), page 708, column 1, abstract No.338841t, deCHASTEIGNER, S. et al.: "Comparative study of the association of itraconazole with colloidal drug carriers", & Drug Dev. Res. 1996, 38(2), 125-133.	1-8
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Information on patent family members

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